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FILED: Herewith

In the claims:

Cancel claims 10-27 and 29-38.

Amend claim 1, and add new claims 39-54.

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C1
A2
1. A method for diagnosing a malignant neoplasm in a mammal, comprising contacting a bodily fluid from said mammal with an antibody or fragment thereof which binds to an human aspartyl (asparaginy) beta-hydroxylase (HAAH) polypeptide under conditions sufficient to form an antigen-antibody complex and detecting the antigen-antibody complex.

A3
39. The method of claim 1, wherein said antibody is a single chain Fv molecule.

40. The method of claim 1, wherein said antibody is a FB50 single chain Fv molecule.

41. A method of diagnosing a malignant neoplasm in a mammal, comprising contacting a bodily tissue from said mammal with an antibody or fragment thereof which binds to a HAAH polypeptide under conditions sufficient to form an antigen-antibody complex and detecting the antigen-antibody complex.

42. The method of claim 41, wherein said tissue is a biopsy of a solid tumor.

43. The method of claim 1, wherein the antigen-antibody complex is detected by a label selected from consisting of an enzymatic label, a fluorescent label, a chemiluminescent label, a radioactive label, and a dye label.

44. The method of claim 41, wherein the antigen-antibody complex is detected by immunohistochemical staining.

45. The method of claim 1, wherein said neoplasm is a hepatocellular carcinoma.

46. The method of claim 1, wherein said neoplasm is a cholangiocarcinoma.

47. The method of claim 41, wherein said neoplasm is a hepatocellular carcinoma.

48. The method of claim 41, wherein said neoplasm is a cholangiocarcinoma.

- Ans 2

claim 41, w